

## Lehmann & Voss LUVOCOM<sup>®</sup> 1100-7890 Polyether sulfone, with carbon fiber

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone, Carbon Fiber Reinforced

### Material Notes:

Applications: Apparatus- and precision engineering, film- and photo industry, sporting- and leisure goods, medical- and electrical engineering, aircraft- and aerospace industry. High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range. Especially suitable for thin wall complex parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. Superheated steam sterilizable. High quality terminal bar, switches and plugs, relays, lamp reflectors, sterilizable medical equipment. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1100-7890-Polyether-sulfone-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1100-7890-Polyether-sulfone-with-carbon-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	130 MPa	18900 psi	
Elongation at Yield	2.1 %	2.1 %	
	2.8 %	2.8 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	190 MPa	27600 psi	
Flexural Modulus	9.00 GPa	1310 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 <sup>°</sup> C	356 <sup>°</sup> F	
	200 <sup>°</sup> C	392 <sup>°</sup> F	short term

Electrical Properties	Metric	English	Comments
Insulation Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	350 <sup>°</sup> C	662 <sup>°</sup> F	mass temp

<b>Nozzle Temperature Processing Properties</b>	<b>340 - 360 Â°C Metric</b>	<b>644 - 680 Â°F English</b>	<b>Comments</b>
Zone 1	355 - 375 Â°C	671 - 707 Â°F	
Zone 2	360 - 380 Â°C	680 - 716 Â°F	
Zone 3	350 - 370 Â°C	662 - 698 Â°F	
Mold Temperature	120 - 200 Â°C	248 - 392 Â°F	
Drying Temperature	150 Â°C @Time 10800 - 18000 sec	302 Â°F @Time 3.00 - 5.00 hour	Dehumidifying dryer

<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>
Color	natural color (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

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